

STARTING TIME: 10:37 A.m. ENDING TIME: 12:41 p.m.

A. BACKGROUND INFORMATION

1. Facility Name	Material Sciences Corporation – East Chicago		
2. Facility Address	4407 Railroad Avenue, Building #3 Door 3A, East Chicago, In 46312		
3. Person Contacted / Title	Kenneth Paxson, Q.A. Mgr 378-1920 3762		
4. No. of Employees	35		
5. Shift Starting Time	Shift 1: 5:00 AM	Shift 2: 5:00 PM	Shift 3: N/A
6. Inspection Type	Unannounced:	Scheduled: X	

IF UNANNOUNCED, COMPLETE ITEMS BELOW, OTHERWISE GO TO ITEM No. 8.

a) New Company	Yes:	No:
b) Complaint	Yes:	No:
c) Spill	Yes:	No:
d) Violation	Yes:	No:
e) Other	Yes:	No:

7. Explain Reason for Inspection: Annual Inspection.

8. SPCC Plan Required and/or Slug Control Plan?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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IF REQUIRED PROCEED, OTHERWISE GO TO PAGE 2, PRETREATMENT PERMIT.

a) Is Plan on File?	Yes X	No
b) Is Plan Adequate?	Yes X	No

9. Explain Deficiencies in SPCC or Slug Control Plan?:

Slug Plan is not required. No Deficiencies to SPCC plan and plan on file.

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 10/25/19

B. PRE-TREATMENT PERMIT		
1. Permit No. 312	2. Expiration Date: 7/14/2023	
3. Categorical Standard(s) Yes 433.10		
4. Toxic Organic (Solvent) Management Plan Required	YES:	NO: X
If required, Proceed, Otherwise go to Item No. 6.		
a) Is Plan on File?	YES:	NO:
b) Is Plan Adequate?	YES:	NO:
5. Production Based Standard Applicable?	YES:	NO:
If So, current Average Production Rate(s)		
6. Are there any changes since last inspection or planned changes to the IU? The project to add two additional plating cells has been completed.		
7. Do Permit Limits Represent Current Operations?	YES: X	NO:
If not, what changes are necessary?		
8. Are Self-Monitoring Reports Required?	YES: X	NO:
If required proceed, otherwise go to page 3 Part C. Water/Wastewater.		
a) Are Reports on File?	YES: X	NO:
b) Are Reports Current?	YES: X	NO:
c) Are Reports Complete?	YES: X	NO:
9. Explain Deficiencies in Self-Monitoring Reports: <i>They are all sent and no deficiencies were found.</i>		
10. Schematic or site map provided?	YES: X on File	NO:

**EAST CHICAGO SANITARY DISTRICT
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C. WATER/WASTEWATER Volume Calculations for 12/01/18 thru 9/30/19			
1. Source of Intake Water (GPD):	City: X	Well:	Other:
2. Discharge Method:	Volume (GPD) Month	Percent of Total	
a) Into Sewer	1,029,362	46.7%	
b) Via NPDES Permit	0	0%	
c) Into Product	0	0%	
d) Evaporation	1,149,293	52.1%	
e) Other (Trucked Waste)	27,740	1.3%	
3. Discharge(s) to Sewer	Volume (GPD) Month	Percent of Total	
a) Industrial Process	713,175	69.3%	
b) Contact Cooling	0	0%	
a) Non-Contact Cooling	305,590	29.7%	
b) Blow down	Included with Non-Contact Cooling Water		
a) Sanitary	10,597	1.0%	
b) Other	0	0%	
TOTAL	1,029,362	100%	
4. Process Discharge Flow:	Continuous X	Intermittent	Batch
If Batch	Gal/Batch	Frequency	
5. Type of Flow Measurement	Isco 4320 Flow Totalizer, 8" Palmer Bowlus Flume, Omega FP85 Paddle Wheel Totalizer		
Adequate for Expected Flows?	YES: X	NO:	
6. Date of Last Calibration:	9/25/19		
7. Number of Outfalls to POTW:	1		
8. Comments (Identify by Item No.):			

**EAST CHICAGO SANITARY DISTRICT
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D. Manufacturing Area			
<p>1. Product(s) or Service(s) and General Description of Processes: Service center for electro-plating, finishing and distribution of electro-galvanized flat, cold rolled carbon steel products.</p> <p>We Process coiled steel strip into electro-galvanized steel strip with various post treatments applied to the surface of the zinc. It can take from 17 minutes up to 2 hours to process a single coil.</p> <p>Major Customers are: Arcelor Mittal, SSAB, Protec/USS Steel, Greif Brothers and various service steel centers.</p>			
2. Process Waste stream(s)	Description	To Sewer	To other (Specify)
Pre-Clean	Hot Water & Alkaline Spray Cleaning & Rinsing	No	Trucked Off-Site for treatment
Electro Degreasing	Hot Water & Alkaline Electrolytic Cleaning & Rinsing	Yes via on-site waste treatment	
Surface Activation	Mild Sulfuric Acid & Water Surface prep & rinsing	Yes via on-site waste treatment	
Plating & Rinsing	Electrolytic Zinc Plating & Hot Water Rinsing	Yes via on-site waste treatment	
Post Plating Surface Treatments	Phosphate, Chromate & Oils	NO	Trucked Off-Site for treatment
Phosphate Section Rinse water	Final Rinse water In Phosphate Section	Yes via on-site waste treatment	
3. Are there floor drains in the manufacturing areas?	YES:	NO: X	
4. Do the floor drains lead directly to the POTW?	YES:	NO: X	
5. Are temporary hoses in place as part of production?	YES: X	NO:	
6. Process areas Inspected:	Entire Facility Inside. Improvements were made and other tanks not used were removed.		
7. Conditions / Operation	Good - Very Good & clean.	Fair	Poor
8. General Housekeeping:	Good - Kept clean & safe. Haz waste materials stored safely.	Fair	Poor
<p>9. Conditions: Areas are Checked and have been improved for safety and spills. Everything is kept inside so nothing goes into the E.C. sewers.</p>			
10. SPCC Practices Adequate?	YES: X	NO:	

**EAST CHICAGO SANITARY DISTRICT
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E. Materials Used (list any raw materials, solvents, oils, chemicals, pretreatment, and boiler/cooling tower additives) attach additional sheets if necessary

Chemical Substance Inventory provided?				YES: X		NO:
Name	Liquid?	Contained?	Size container	Quantity	MSDS?	Notes
Spray Clean 985 ECT	Liq	Y	330 gal tote	2,000		Contains potassium hydroxide, sodium hydroxide surfactants, phosphates and water
Electro-LV84	Liq	Y	330 gal tote	1,000 gals		Contains potassium hydroxide, sodium hydroxide surfactants, phosphates and water
1. Sulfuric Acid	Liq	Y	Bulk tank,	5,600 gals,		93% Technical grade Sulfuric Acid
2. Sulfuric Acid	Liq	Y	55 gal drums	750 gals		
Sodium Hydroxide	Liq	Y	Bulk Tank, 55 gal drums	5,600, 750 gals		50% Sodium Hydroxide solution
Metallic Zinc	Solid	Y	4,500 lb tote sacks	60,000 lbs		99.99% pure zinc shot for makine electrolyte soln
Electrolyte Solution	Liq	Y	76,000 gal tank	68,000-76,000 gal		Contains dissolvd zinc, sulfuric acid and water
Hydrochloric Acid	Liq	Y	55 gal drum	660 gal		30-35 % Active concentration of acid
Strontium Carbonate	Solid	Y	50 lb bags	2,500 lbs		
Diatomaceous Earth	Solid	Y	50 lb bags	2,,000 lbs		
Activator JW	Solid	Y	50 lb Carboy	300 lb		Contains tetra-sodium phosphate
Americo ZCN-98	Liq	Y	330 gal tote	660 gals		Contains nickel carbonate, phosphoric acid, zinc oxide, nitric acid & water
Various chrome solns	Liq	Y	55 gal drums	1,300 gal		Contains chromic acid, phosphoric acid, zinc salt, zinc oxide, silicon dioxide & acrylic polymers
Quaker Ferrocote 61 AUS	Liq	Y	300 gal totes	900 gal		Rust preventing oil compounds to protect product from corrosion
Quaker Ferrocote EGL-1	Liq	Y	300 gal totes	900 gal		Rust preventing oil compounds to protect product from corrosion
Quaker Ferrocote Mal-HCL-1	Liq	Y	55 gal drums	55 gal		Pre-lube oil
Hydraulic oil	Liq	Y	55 gal drums, (2) 500 gal tanks	440 gal 1,000 gals		
Maintenance oil & gear lubes	Liq	Y	55 gal drums	1,000 gal		
Hydrozone OS115	Liq	Y	55 gal drum	110 gal		Boiler Chemical- oxygen scavenger- contains sodium bisulfite
Hydrozone BFW 0106	Liq	Y	55 gal drum same	110 gal same		Boiler Chemical -Contains polymer, sodiam hydroxide & potassium hydroxide

RLT 1136	Liq	Y	55 gal drum same	110 gal same		Steam line system chemical contains cyclohexylamine, n-ethyl-n-hydroxyethanamine
Hydrozone CSC 1040	Liq	Y	Same as above	Same		Non-contact cooling water system corrosion Inhibitor-contains sodium hydroxide
Bellacide	Liq	Y	30 Gallon Drum	30-45 Gallons		Microbiocide for cooling water system Contains:tributyldecyl phosphonium chloride
Sod Hypochlorite	Liq	Y	Same as above	550 gals		Cooling water algaecide-12% concentration
Solar Salt	Solid	Y	50 lb bag	3,400 lbs		Used in water softeners
Calcium Chloride	Solid	Y	50 lb bag	3,400 lbs		Flake, 60% active, Used in Waste Treatment

**EAST CHICAGO SANITARY DISTRICT
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F. Pre-Treatment Area				
1. Pretreatment System On-Site		YES: X	NO:	
2. Schematic or site map provided?		YES: X	NO:	
3. Description: Waste stream equalization, metals precipitation, neutralization, dewatering and sludge disposal. Pre-treatment plant typically operates from 5:00 AM to 11:00 PM. Discharge is continuous when the Pre-treatment plant is in operation				
4. Discharge	Continuous X	Intermittent	Batch	Other
5. Conditions / Operation		Good	Fair	Poor
6. Comments (Reference any Deficiencies by item no.): No. 3 Kept and maintained properly. Operator is Certified and operations are working as should be. When they are down for maintenance, he will call & let us know for monitoring purposes & to not come. Communication is excellent.				
7. Certified Operator(s)		Licensed No.	Class	
Kenneth Paxson		WW008970	C	
8. SPCC Practices Adequate?		Yes: ✓	No:	

**EAST CHICAGO SANITARY DISTRICT
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G. Chemical / Waste Storage Areas	
1. Sludge/Hazardous or Non-Hazardous Waste: <div style="text-align: center;">2019</div>	a) waste treatment sludge (non-haz) b) Oil contaminated wastewater- (non-haz) c) Phosphate rinse waters (non—haz) d) Spent zinc waste-(non-haz) e) Electrolyte filter sludge (non-haz) f) Electrolyte pit & tank bottom Sludge (Haz, D002 & D008) g) Degrease pit & tank bottom sludge (Haz, D002) h) Liquid & solid chrome wastes – liquid (Haz, D002 & D007) solid chrome waste (Haz, D002) i) Oily rags (non-haz)
2. Source of Waste	a) From the Wastewater Pre-treatment system b) Preclean & Electro-degrease sections of the process line. c) Phosphating sect of process line. d) From the plating & plating rinse section of process line. e) From the plating & plating rinse section of process line. f) From the plating & plating rinse section of process line. g) From electro-cleaning section of the process line (alkaline) h) From the chromate section of the process line. i) Equipment maintenance
3. Describe any Waste Handling (What happens to it?) <div style="text-align: center;">2019</div>	a) Trucked off site to Waste Management Landfill b) Trucked Off-site for treatment & Disposal (Covanta & All Source Environmental) c) Trucked Off-site for treatment & Disposal (Covanta & All Source Environmental) d) Trucked Off-site for treatment & Disposal (Covanta) e) Trucked off site to Waste Management Landfill f) Trucked Off-site for treatment & Disposal (Covanta) g) Trucked Off-site for treatment & Disposal (Covanta) h) Trucked Off-site for treatment & Disposal (Covanta) i) Trucked Off-site for treatment & Disposal (Covanta)
4. Quantity <div style="text-align: center;">January 1, 2019 thru November 30, 2019</div>	a) 183 tons b) 223,500 gallons c) 22,350 gallons d) 20,410 lbs e) 4.0 Tons f) 9,460 lbs g) 0 lbs h) Liquid Chrome Waste = 16,985 lbs Solid Chrome Waste = 670 lbs i) 4,300 lbs
5. Transport Company	a) Waste Management b) Covanta & All Source Environmental c) Covanta & All Source Environmental d) Covanta e) Waste Management f) Covanta g) Covanta h) Covanta i) Covanta
6. Disposal Facility	a) Prairie View Landfill – Wyatt, Indiana b) Covanta – Portage, In. & Water Integrated Treatment Systems, Dolton, IL. c) Water Integrated Treatment Systems, Dolton, IL. & Covanta – Portage, In. d) Covanta – Portage, In. e) Prairie View Landfill – Wyatt, Indiana f) Covanta – Portage, In./AES Environmental - Calvert City, Kentucky g) Covanta – Portage, In./AES Environmental - Calvert City, Kentucky h) Envirote of Illinois – Harvey, IL. i) Covanta – Portage, In.

7. On-Site Storage	Yes: <input checked="" type="checkbox"/> (90 Day Accumulation Only)	No:
8. Describe (Include any Irregularities in Drums, Labels, or Manifests): Everything is labelled properly & stored, documented. No problems to report.		
9. Conditions:	Good ^{Very} Good	Fair Poor
10. Floor Drains in Storage Areas?	Yes:	No: <input checked="" type="checkbox"/>
11. Are SPCC Practices Adequate?	Yes: <input checked="" type="checkbox"/>	No:
12. Comments (Reference any Deficiencies by item no.): Very well Kept so no spilled drums may escape of anything liquid out of the storage area of their chemicals. No problems to report.		

**EAST CHICAGO SANITARY DISTRICT
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Inspection Date: 10/25/19

H. Industrial Self-Monitoring		
1. Is Self-Monitoring Required?	YES: X	NO:
2. Sample Collections Method: Combination of Grabs and 24 hour composite sample as required by the constituent being sampled		
3. Is sampling location appropriate?	YES: ✓	
4. IU and POTW sample at same location?	YES: N/A	NO:
5. Chain-of-Custody Adequate?	YES: ✓	NO:
6. Sampling Equipment Adequate:	YES: ✓	NO:
7. Sample type appropriate?	YES: ✓	NO:
8. Sample containers Appropriate?	YES: ✓	NO:
9. Samples Properly Preserved?	YES: ✓	NO:
10. Holding times Short Enough?	YES: ✓	NO:
11. Sampling/ analysis done in accordance with 40 CFR 136?	YES: ✓	NO:
12. Is sampling frequency correct?	YES: ✓	NO:
13. IU certifying reports sent to POTW and IDEM?	YES: X	NO:
14. Sampling SOP reviewed?	YES: ✓	NO:
15. Sampling QA/QC documents reviewed?	YES: ✓	NO:
16. Analysis conducted	In-House	Contract Lab (Name) Test America
17. Self-Monitoring Records	YES: ✓	NO:
18. All Analytical results on File?	YES: ✓	NO:
19. Records Kept for Period Specified in Permit?	YES: X	NO:
20. Comments (Reference any Deficiencies by item no.): No deficiencies. Records & Reports, data have been sent.		

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 10/25/19

I. Final Comments

1. Questions/ Comments/ Discussion

None Required

2. Follow Up Actions Required

Documents for Flow Diagrams of Water & Wastewater Treatment are the same & operators license WW Class III updated 2020.
Nothing else Required

Inspector(s) Signature(s):

Nickie Grogg

Date:

10/25/19

IU Representative Signature:

Shunelle Hapson

Date:

10/25/2019

FORM ADAPTED FROM INDIANA PRETREATMENT GROUP INSPECTION FORM, NO. 0586B, DATED 03/90

Department of Environmental Management
Office of Water Quality - IGCN Room 1255
100 N. Senate Ave.
Indianapolis, IN 46204-2251

Wastewater Operator Class C

Certification#	Effective Date	Expiration Date
WW008970	07/01/2018	06/30/2020

Kenneth W. Paxson

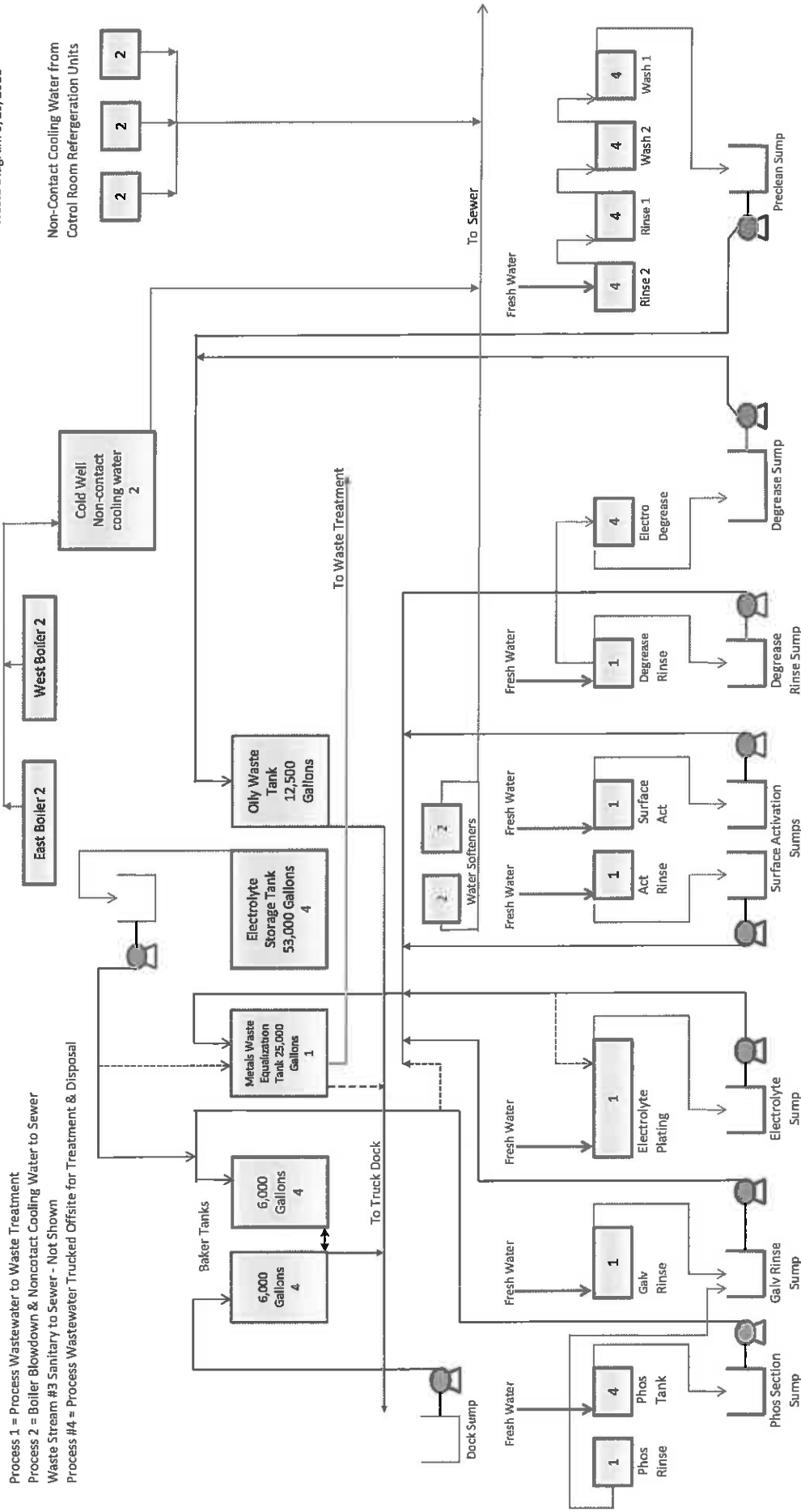
Department of Environmental Management
Office of Water Quality - IGCN Room 1255
100 N. Senate Ave.
Indianapolis, IN 46204-2251

Wastewater Operator Class III

Certification#	Effective Date	Expiration Date
WW008969	07/01/2018	06/30/2020

Kenneth W. Paxson

MSC Waste Flow Diagram Waste Diagram 5/29/2018





Department of Environmental Management
Office of Water Quality -- IGCN Room 1255
100 N. Senate Ave.
Indianapolis, Indiana 46204-2251

Wastewater Operator Class III

11/21/28/18
update

Certification Number	Effective Date
WW008969	07/01/2018 6/30/2020

Kenneth W. Paxson

Certificate of Competency

This certifies that the person named above has fulfilled the requirements for certification as a wastewater treatment plant operator in accordance with IC 13-18-11 and is hereby certified as a Wastewater Operator Class III.


Bruno L. Pigott
Commissioner



Department of Environmental Management
Office of Water Quality -- IGCN Room 1255
100 N. Senate Ave.
Indianapolis, Indiana 46204-2251

Wastewater Operator Class C

Certification Number	Effective Date
WW008970	07/01/2018 6/30/2020

Kenneth W. Paxson

Certificate of Competency

This certifies that the person named above has fulfilled the requirements for certification as a wastewater treatment plant operator in accordance with IC 13-18-11 and is hereby certified as a Wastewater Operator Class C.


Bruno L. Pigott
Commissioner

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 11 / 5 / 2019

INSPECTOR: Nickie Geros/Henry Padilla

STARTING TIME: 10:00 AM

ENDING TIME: 12:00 PM

A. BACKGROUND INFORMATION			
1. Facility Name	W.R. Grace		
2. Facility Address	5215 Kennedy Ave		
3. Person Contacted / Title	Carl Muehlman EHS Manager		
4. No. of Employees	51		
5. Shift Starting Time	Shift1:11:00pm to 7:00am	Shift2: 7:00am to 3:00pm	Shift3:3:00pm to 11:00pm
6. Inspection Type	Unannounced:		Scheduled: X
IF UNANNOUNCED, COMPLETE ITEMS BELOW, OTHERWISE GO TO ITEM No. 8.			
a) New Company	Yes:		No:
b) Complaint	Yes:		No:
c) Spill	Yes:		No:
d) Violation	Yes:		No:
e) Other	Yes:		No:
7. Explain Reason for Inspection: Significant Industrial Users Annual Inspection			
8. SPCC Plan Required and/or Slug Control Plan?	Yes X		No
IF REQUIRED PROCEED, OTHERWISE GO TO PAGE 2, PRETREATMENT PERMIT.			
a) Is Plan on File?	Yes X		No
b) Is Plan Adequate?	Yes X		No
9. Explain Deficiencies in SPCC or Slug Control Plan?:			

**EAST CHICAGO SANITARY DISTRICT
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B. PRE-TREATMENT PERMIT		
1. Permit No. 401	2. Expiration Date: 5-1-2021	
3. Categorical Standard(s)	No	
4. Toxic Organic (Solvent) Management Plan Required	YES:	NO: X
If required, Proceed, Otherwise go to Item No. 6.		
a) Is Plan on File?	YES:	NO:
b) Is Plan Adequate?	YES:	NO:
5. Production Based Standard Applicable?	YES:	NO:
If So, current Average Production Rate(s)		
6. Are there any changes since last inspection or planned changes to the IU?		
Future planned changes include update to their current wastewater treatment facility. Will keep us posted.		
7. Do Permit Limits Represent Current Operations?	YES: X	NO:
If not, what changes are necessary?		
8. Are Self-Monitoring Reports Required?	YES:	NO: X
If required proceed, otherwise go to page 3 Part C. Water/Wastewater.		
a) Are Reports on File?	YES:	NO:
b) Are Reports Current?	YES:	NO:
c) Are Reports Complete?	YES:	NO:
9. Explain Deficiencies in Self-Monitoring Reports:		
10. Schematic or site map provided?	YES: X Sanitary, process, & site maps	NO:

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 11 / 5 / 2019

C. WATER/WASTEWATER			
1. Source of Intake Water (GPD):	City: X	Well:	Other:
2. Discharge Method:	Volume (GPD) Month	Percent of Total	
a) Into Sewer	2,474,000	100%	
b) Via NPDES Permit			
c) Into Product			
d) Evaporation			
e) Other			
3. Discharge(s) to Sewer	Volume (GPD) Month	Percent of Total	
a) Industrial Process			
b) Contact Cooling			
a) Non-Contact Cooling			
b) Blow down			
a) Sanitary	Minimal < 10,000		
b) Other			
TOTAL	2,474,000	100%	
4. Process Discharge Flow:	Continuous	Intermittent X	Batch
If Batch	Gal/Batch	Frequency	
5. Type of Flow Measurement	6" Bailey/Fisher & Porter Magnetic Accuracy 0.5% of rate from 2% to 100% of meter Cal Factor; 0.01% of Cal Factor from 0% to 2% of Cal Factor		
Adequate for Expected Flows?	YES: X	NO:	
6. Date of Last Calibration:	October 31 st 2019		
7. Number of Outfalls to POTW:	One		
8. Comments (Identify by Item No.):			

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INSPECTION DATE: 11 / 5 / 2019

D. Manufacturing Area			
1. Product(s) or Service(s) and General Description of Processes: Sodium Silicate and Colloidal Silica Water glass Ludox			
2. Process Waste stream(s)	Description	To Sewer	To other (Specify)
Sanitary	Locker room & washrooms	Yes	
Process	Sodium Silicate and Colloidal Silica	No	Grand Calumet river
3. Are there floor drains in the manufacturing areas?	YES: X	NO:	
4. Do the floor drains lead directly to the POTW?	YES:	NO: X	
5. Are temporary hoses in place as part of production?	YES:	NO: X	
6. Process areas Inspected:	All of facility, inside, outside, storage areas, labs, production areas and tanks		
7. Conditions / Operation	Good X	Fair	Poor
8. General Housekeeping:	Good X	Fair	Poor
9. Conditions: Storage of product for shipment is Excellent and very clean.			
10. SPCC Practices Adequate?	YES: X	NO:	

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E. Materials Used (list any raw materials, solvents, oils, chemicals, pretreatment, and boiler/cooling tower additives) *attach additional sheets if necessary*

Chemical Substance Inventory provided?				YES: <input checked="" type="checkbox"/>		NO:
Name	Liquid?	Contained?	Size container	Quantity	MSDS?	Notes
Sulfuric Acid	Yes	Yes	13,500 & 4,500 gal		Yes	Raw material & Wastewater treatment chemicals
Caustic (50%) Sodium Hydroxide	Yes	Yes	29,000 & 4,200 gal		Yes	Finished product additives & Wastewater treatment chemicals
Aluminum Chlorhydrate (Chlorhydrol)	Yes	Yes	55 gal		Yes	Finished product additives
Ammonium Hydroxide	Yes	Yes	250 gal		Yes	Finished product additives
Betz Cortrol IS3080K Sodium Bisulfite	Yes	Yes	110 gal		Yes	Boiler water treatment chemicals
Betz Optisperse APO200 K	Yes	Yes	110 gal		Yes	Boiler water treatment chemicals
Betz Polyfloc AP1138 B1		Yes	50 lb bags		Yes	Wastewater treatment chemicals
Name	Liquid?	Contained?	Size container	Quantity	MSDS?	Notes

BioBan BP		Yes	30 lb keg		Yes	Finished product additives
Dowicil 150	Yes	Yes	5 gal		Yes	Finished product additives
Ethylene Glycol	Yes	Yes	55 gal		Yes	Finished product additives
Kathon LX (14%)	Yes	Yes	5 gal		Yes	Finished product additives
Lime (Calcium Hydroxide)		Yes	Silo		Yes	Wastewater treatment chemicals
Lithium Hydroxide		Yes	50 lb bag		Yes	Finished product additives
Petroleum products	Yes	Yes	270 gal, 55 gal & 5 gal		Yes	Lubricating oil, fuel, gasoline, Crystal Kleen, Gear oil
Ludox Colloidal Silica	Yes	Yes	55 to 50,000		Yes	Finished products
Sand		Yes	Silo		Yes	Raw material
Soda Ash (Sodium Carbonate)		Yes	Silo		Yes	Raw material
Sodium Aluminate	Yes	Yes	55 gal		Yes	Finished product additives
Sodium Silicate	Yes	Yes	20,000		Yes	Raw material & Finished products

**EAST CHICAGO SANITARY DISTRICT
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G. Chemical / Waste Storage Areas		<i>Quantity/yr Transport Co.</i>	
1. Sludge / Hazardous Waste:	a) Lab solvent hazardous CESQG	200 lbs	Tradebe
	b) Sodium Silicate amorphous glass non-hazardous	80 tons	Republic
	c) Cleaning solvent non-hazardous	120gal	Crystal Kleen
	d) Waste oil non-hazardous	165gal	Future/Niles
	e) Universal waste non-hazardous	500 Lt. bulbs	W.M Lamp-tracker
	f) Filter press cake non-hazardous	3,345 tons	Z-Force
	g) Tank cleaning bottoms non-hazardous	300 tons	Republic
2. Source of Waste	<i>Disposal facility</i>		
	a) Lab test procedure	Tradebe	
	b) Production glass chain	Newton Co. Landfill	
	c) Parts cleaning. 20 gal tank. Christal Clean recycled	Recycled	
	d) Gear box and hydraulic oil changes on equipment	Recycled	
	e) Light bulbs, batteries & ballasts	Recycled	
	f) Solid cake from waste water treatment filter press	Newton Co. Landfill	
	g) Solids settled to the bottom of our silicate storage tanks	Newton Co.	
3. Describe Hazardous Waste Handling	Lab generated a few once at a time, placed in a satellite accumulation container then transferred to a 5 gallon container for shipment.		
4. Quantity	Less than 200 lbs per year		
5. Transport Company	Tradebe		
6. Disposal Facility	Tradebe		
7. On-Site Storage	Yes: <input checked="" type="checkbox"/>	No:	
8. Describe (Include any Irregularities in Drums, Labels, or Manifests)			
9. Conditions:	Good <input checked="" type="checkbox"/>	Fair	Poor
10. Floor Drains in Storage Areas?	Yes:	No: <input checked="" type="checkbox"/>	
11. Are SPCC Practices Adequate?	Yes: <input checked="" type="checkbox"/>	No:	
12. Comments (Reference any Deficiencies by item no.):			

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 11 / 5 / 2019

H. Industrial Self-Monitoring		
1. Is Self-Monitoring Required?	YES:	NO: X
2. Sample Collections Method:		
3. Is sampling location appropriate?		
4. IU and POTW sample at same location?	YES:	NO:
5. Chain-of-Custody Adequate?	YES:	NO:
6. Sampling Equipment Adequate:	YES:	NO:
7. Sample type appropriate?	YES:	NO:
8. Sample containers Appropriate?	YES:	NO:
9. Samples Properly Preserved?	YES:	NO:
10. Holding times Short Enough?	YES:	NO:
11. Sampling/ analysis done in accordance with 40 CFR 136?	YES:	NO:
12. Is sampling frequency correct?	YES:	NO:
13. IU certifying reports sent to POTW and IDEM?	YES:	NO:
14. Sampling SOP reviewed?	YES:	NO:
15. Sampling QA/QC documents reviewed?	YES:	NO:
16. Analysis conducted	In-House	Contract Lab (Name)
17. Self-Monitoring Records	YES:	NO:
18. All Analytical results on File?	YES:	NO:
19. Records Kept for Period Specified in Permit?	YES:	NO:
20. Comments (Reference any Deficiencies by item no.):		

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 11 / 5 / 2019

I. Final Comments

1. Questions/ Comments/ Discussion

No longer uses Formaldehyde

2. Follow Up Actions Required

Inspector(s) Signature(s):

Am P

Date:

11/5/19

IU Representative Signature:

Carl S. Muehlman

Date: 11/5/19

FORM ADAPTED FROM INDIANA PRETREATMENT GROUP INSPECTION FORM, NO. 0586B, DATED 03/90

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 11/18/2019

INSPECTOR: Henry Padilla

STARTING TIME: 10:00 a.m. **ENDING TIME:** 10:30 a.m.

A. BACKGROUND INFORMATION: Outfall No. 521			
1. Facility Name	Lakeshore Railcar & Tanker Services LLC (LSRS)		
2. Facility Address	1150 E. 145 th St. East Chicago, IN 46312		
3. Person Contacted / Title	James Kornas, V.P. Operations, Patriot Rail; 219-392-8100 ofc, 904-528-8629 cell David Hric, Wastewater Operator, LSRS 219-392-8108 ofc, 219-614-4026 cell Lee Walter, Sr. Engineer, PM Environmental 865-221-7870 ofc, 865-765-1059 cell		
4. No. of Employees	Twenty-Three (23) Water treatment in 2019 was typically daily M-F.		
5. Shift Starting Time	Shift 1: 6:00am-4:00pm	Shift 2: N/A	Shift 3: N/A
6. Inspection Type	Unannounced:		Scheduled: X
IF UNANNOUNCED, COMPLETE ITEMS BELOW, OTHERWISE GO TO ITEM No. 8.			
a) New Company	Yes:	No:	
b) Complaint	Yes:	No:	
c) Spill	Yes:	No:	
d) Violation	Yes:	No:	
e) Other	Yes:	No:	
7. Explain Reason for Inspection: Scheduled Annual Site Inspection			
8. SPCC Plan Required and/or Slug Control Plan?	Yes X		No
IF REQUIRED PROCEED, OTHERWISE GO TO PAGE 2, PRETREATMENT PERMIT.			
a) Is Plan on File?	Yes X	No	
b) Is Plan Adequate?	Yes X	No	
9. Explain Deficiencies in SPCC or Slug Control Plan:			
Updates needed to cover the new WWTP tanks and operations recently installed.			



**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 11/18/19

B. PRE-TREATMENT PERMIT

1. Permit No. 521		2. Expiration Date: 05/20/2013	
3. Categorical Standard(s) Yes, X; CWT Operations scheduled for startup on 11/25/19.			
4. Toxic Organic (Solvent)	YES:	NO: X	
If required, Proceed, Otherwise go to Item No. 6.			
a) Is Plan on File?	YES:	NO:	
b) Is Plan Adequate?	YES:	NO:	
5. Production Based Standard Applicable?	YES:	NO:	
If So, current Average Production Rate(s)			
6. Are there any changes since last inspection or planned changes to the IU? A Change in Conditions has occurred. New Treatment system components with an upgraded capacity of 100 gpm. IU intends to begin CWT treatment operations and receiving outside wastewater on 11/25/19. This wastewater will initially consist of petroleum contact water (PCW) and oily vegetable-based waters. See Memo from PM Environmental on 11/18/19 summarizing the Change in Conditions.			
7. Do Permit Limits Represent Current Operations?	YES: X	NO:	
If not, what changes are necessary?			
8. Are Self-Monitoring Reports Required?	YES: X	NO:	
If required proceed, otherwise go to page 3 Part C. Water/Wastewater.			
a) Are Reports on File?	YES: X	NO:	
b) Are Reports Current?	YES: X	NO:	
c) Are Reports Complete?	YES: X	NO:	
9. Explain Deficiencies in Self-Monitoring Reports:			
10. Schematic or site map provided?	YES: X	NO:	

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11/18/19

C. WATER/WASTEWATER			
1. Source of Intake Water (GPD):	City: X	Well:	Other:
2. Discharge Method:	Volume (GPD) Month	Percent of Total	
a) Into Sewer	451,779	100%	
b) Via NPDES Permit			
c) Into Product			
d) Evaporation			
e) Other			
3. Discharge(s) to Sewer	Volume (GPD) Month	Percent of Total	
a) Industrial Process	451,946		
b) Contact Cooling			
a) Non-Contact Cooling			
b) Blow down			
a) Sanitary			
b) Other			
TOTAL			
4. Process Discharge Flow:	Continuous	Intermittent:	Batch: X
If Batch	Gal/Batch: ~10,000	Frequency: ~8 hrs./day	
5. Type of Flow Measurement	Totalizing Meter – Laser Flow Sensor – ISCO Signature Ser. No. 217B00086; 0-100 gpm		
Adequate for Expected Flows?	YES: X	NO:	
6. Date of Last Calibration:	10/31/19		
7. Number of Outfalls to POTW:	1		
8. Comments (Identify by Item No.): New treatment system will operate as batch treatment system process and typical batches will be 10,000 - 20,000 gallons.			



**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11/18/19

D. Manufacturing Area #521

1. Product(s) or Service(s) and General Description of Processes:

Tanker truck and rail car cleaning. Residual product (heel) is collected and disposed of off site at third party disposal vendor. Cars are cleaned and rinsed, and rinse waters are collected for treatment. Offsite waste (PCW & vegetable based oily waters) is received at the facility in tankers (rail and truck) and are treated through the pre-treatment system and then discharged to the ECSD POTW through outfall #521.

2. Process Waste stream(s)	Description	To Sewer	To other (Specify)
Non-Haz Sludge Generated	Non-Haz Sludge		Landfill
Recovered Oils	Non-Haz Oil		To recycling

3. Are there floor drains in the manufacturing areas?	YES:	NO: X
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4. Do the floor drains lead directly to the POTW?	YES:	NO: X
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5. Are temporary hoses in place as part of production?	YES:	NO: X
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6. Process areas Inspected:	Pre-treatment system, inside storage tank washing, Haz & Non-Haz waste storage building, railcars outside, small building outside and entire property. General storage of ~250 rail cars on site for cleaning operations.		
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7. Conditions / Operation	Good X	Fair	Poor
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8. General Housekeeping:	Good X	Fair	Poor
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9. Conditions:			
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10. SPCC Practices Adequate?	YES: X	NO:
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**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11/18/19

E. Materials Used (list any raw materials, solvents, oils, chemicals, pretreatment, and boiler/cooling tower additives) attach additional sheets if necessary:

Chemical Substance Inventory provided?			YES: X		NO:	
Name	Liquid?	Contained?	Size container	Quantity	MSDS?	Notes
Caustic	X	X	(1) 375 gal Tote	375 gals	X	
Sulfuric Acid	X	X	(8) 55 gal Drums	440 gals	X	
Coagulant	X	X	(1) 375 gal Tote	375 gals	X	
Flocculant	X	X	(4) 5 gal Buckets	20 gals	X	
Hydrogen Peroxide	X	X	(4) 55 gal Drums	220 gals	X	

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11/18/19

F. Pre-Treatment Area #521				
1. Pretreatment System On-Site		YES: X	NO:	
2. Schematic or site map provided?		YES: X	NO:	
3. Description:				
4. Discharge	Continuous	Intermittent X	Batch X	Other
5. Conditions / Operation		Good X	Fair	Poor
6. Comments (Reference any Deficiencies by item no.):				
<p>Current operator David Hric has an IN apprentice certification, working in conjunction with Sam Harris's Illinois Class 3 Group 3 & 4 license under agreement with the City. Lakeshore is currently looking to hire a licensed Indiana Class B operator in the near future.</p>				
7. Certified Operator(s)		Licensed No.	Class	
David Hric		WWA00432 (Apprentice)	B	
Sam Harris		Illinois License	Class 3 Industrial Operator	
8. SPCC Practices Adequate?		Yes: X	No:	

7

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11/18/19

G. Chemical / Waste Storage Areas #521			
1. Sludge/Hazardous or Non-Hazardous Waste:		a) Non-Haz Sludge	
		b) Hazardous Drums/Totes	
		c) Non-Hazardous Drums/Totes	
2. Source of Waste		a) Sludge created by DAF Unit & Plate Clarifier	
		b) Residual product from truck tanker and railcar cleaning	
		c) Residual product from truck tanker and railcar cleaning	
3. Describe any Waste Handling (What happens to it?)		Waste is categorized, drummed and sent off-site for disposal within 90 days	
4. Quantity		15-20 drums per month. 825-1100 gallons	
5. Transport Company		Various – depending on Hazardous/Non-Hazardous characterizations	
6. Disposal Facility		Various – depending on Hazardous/Non-Hazardous characterizations	
7. On-Site Storage		Yes: X	No:
8. Describe (Include any Irregularities in Drums, Labels, or Manifests): NONE			
9. Conditions:		Good X	Fair
			Poor
10. Floor Drains in Storage Areas?		Yes:	No: X
11. Are SPCC Practices Adequate?		Yes: X	No:
12. Comments (Reference any Deficiencies by item no.):			



**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11/18/19

II. Industrial Self-Monitoring #521		
1. Is Self-Monitoring Required?	YES: X	NO:
2. Sample Collections Method:		
Grab and composite		
3. Is sampling location appropriate?	YES: X	NO:
4. IU and POTW sample at same location?	YES: X	NO:
5. Chain-of-Custody Adequate?	YES: X	NO:
6. Sampling Equipment Adequate:	YES: X	NO:
7. Sample type appropriate?	YES: X	NO:
8. Sample containers Appropriate?	YES: X	NO:
9. Samples Properly Preserved?	YES: X	NO:
10. Holding times Short Enough?	YES: X	NO:
11. Sampling/ analysis done in accordance with 40 CFR 136?	YES: X	NO:
12. Is sampling frequency correct?	YES: X	NO:
13. IU certifying reports sent to POTW and IDEM?	YES: X	NO:
14. Sampling SOP reviewed?	YES: X	NO:
15. Sampling QA/QC documents reviewed?	YES: X	NO:
16. Analysis conducted		Contract Lab (Name) TestAmerica
17. Self-Monitoring Records	YES: X	NO:
18. All Analytical results on File?	YES: X	NO:
19. Records Kept for Period Specified in Permit?	YES: X	NO:
20. Comments (Reference any Deficiencies by item no.):		
All Up to date		



**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11/18/19

I. Final Comments #52i

1. Questions/ Comments/ Discussion

2. Follow Up Actions Required

Inspector(s) Signature(s):



Date:

3-4-2020

IU Representative Signature:



Date:

03/04/2020

FORM ADAPTED FROM INDIANA PRETREATMENT GROUP INSPECTION FORM, NO. 0586B, DATED 03/90



**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 11 / 14 / 2019

INSPECTOR: Nickie Geros and Henry Padilla

STARTING TIME: 12:30 PM **ENDING TIME:** 1:30 PM

A. BACKGROUND INFORMATION			
1. Facility Name	Safety-Kleen Systems, Inc.		
2. Facility Address	601 Riley Road, East Chicago, IN 46312		
3. Person Contacted / Title	Michael Radcliffe/Sr. Mgr. Environmental Compliance		
4. No. of Employees			
5. Shift Starting Time	Shift 1: 06:00	Shift 2: 18:00	Shift 3:
6. Inspection Type	Unannounced:	Scheduled: Yes	
IF UNANNOUNCED, COMPLETE ITEMS BELOW, OTHERWISE GO TO ITEM No. 8.			
a) New Company	Yes:	No:	
b) Complaint	Yes:	No:	
c) Spill	Yes:	No:	
d) Violation	Yes:	No:	
e) Other	Yes:	No:	
7. Explain Reason for Inspection: Annual inspection 2019			
8. SPCC Plan Required and/or Slug Control Plan?	Yes Both are required		No
IF REQUIRED PROCEED, OTHERWISE GO TO PAGE 2, PRETREATMENT PERMIT.			
a) Is Plan on File?	Yes On file		No
b) Is Plan Adequate?	Yes Yes		No
9. Explain Deficiencies in SPCC or Slug Control Plan?: None			

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 11 / 14 / 2019

B. PRE-TREATMENT PERMIT		
1. Permit No. 901	2. Expiration Date: August 21, 2023	
3. Categorical Standard(s)	Yes	
4. Toxic Organic (Solvent) Management Plan Required	YES:	NO: No
If required, Proceed, Otherwise go to Item No. 6.		
a) Is Plan on File?	YES:	NO:
b) Is Plan Adequate?	YES:	NO:
5. Production Based Standard Applicable?	YES:	NO:
If So, current Average Production Rate(s)		
6. Are there any changes since last inspection or planned changes to the IU? No		
7. Do Permit Limits Represent Current Operations?	YES: Yes	NO:
If not, what changes are necessary? Negotiating a higher available cyanide discharge limit		
8. Are Self-Monitoring Reports Required?	YES: X	NO:
If required proceed, otherwise go to page 3 Part C. Water/Wastewater.		
a) Are Reports on File?	YES: X	NO:
b) Are Reports Current?	YES: X	NO:
c) Are Reports Complete?	YES: X	NO:
9. Explain Deficiencies in Self-Monitoring Reports: None		
10. Schematic or site map provided?	YES: X	NO:

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11 / 14 /2019

C. WATER/WASTEWATER			
1. Source of Intake Water (GPD):	City: X	Well:	Other:
2. Discharge Method:	Volume (GPD) Month	Percent of Total	
a) Into Sewer	4,461,280	100%	
b) Via NPDES Permit	0		
c) Into Product			
d) Evaporation			
e) Other			
3. Discharge(s) to Sewer	Volume (GPD) Month	Percent of Total	
a) Industrial Process		94.7%	
b) Contact Cooling		0%	
a) Non-Contact Cooling		0.5%	
b) Blow down		0%	
a) Sanitary		0.8%	
b) Other		0%	
TOTAL		100%	
4. Process Discharge Flow:	Continuous Yes	Intermittent	Batch
If Batch	Gal/Batch	Frequency	
5. Type of Flow Measurement			
Adequate for Expected Flows?	YES: X	NO:	
6. Date of Last Calibration:	April 2019		
7. Number of Outfalls to POTW:	One for sanitary and one for pretreatment works		
8. Comments (Identify by Item No.):			
ECSD permit only covers discharge from pretreatment works			

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11 / 14 / 2019

D. Manufacturing Area

1. Product(s) or Service(s) and General Description of Processes:

Re-refining and reformulation of used oils to produce recycled oils for commercial and industrial use. Washing of truck trailers and rail cars with commercial soaps and water. Pretreatment of wastewaters using biological and physical/chemical treatment methods

2. Process Waste stream(s)	Description	To Sewer	To other (Specify)
Refining wastewater	Oily process water		On-site WWTP
Truck Trailer wash	Soapy and oil water		On Site WWTP
Rail car wash	Soapy and oily water		On site WWTP
Stormwater from containment	Precipitation possible oils		On-site WWTP
WWTP Discharge	Pretreated process wastewaters	Yes	
3. Are there floor drains in the manufacturing areas?	YES: X - containment areas only	NO:	
4. Do the floor drains lead directly to the POTW?	YES:	NO: X	
5. Are temporary hoses in place as part of production?	YES:	NO: X	
6. Process areas Inspected:			
7. Conditions / Operation	Good X	Fair	Poor
8. General Housekeeping:	Good X	Fair	Poor
9. Conditions: Clean and neat All floor drains got to on-site WWTP			
10. SPCC Practices Adequate?	YES: X	NO:	

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11 / 14 / 2019

E. Materials Used (list any raw materials, solvents, oils, chemicals, pretreatment, and boiler/cooling tower additives) *attach additional sheets if necessary*

Chemical Substance Inventory provided?

YES: ☒ **X**

NO:

Name	Liquid?	Contained?	Size container	Quantity	MSDS?	Notes
						se attached list

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11 / 14 / 2019

F. Pre-Treatment Area				
1. Pretreatment System On-Site		YES: X	NO:	
2. Schematic or site map provided?		YES: X	NO:	
3. Description:				
4. Discharge	Continuous X	Intermittent	Batch	Other
5. Conditions / Operation		Good X	Fair	Poor
6. Comments (Reference any Deficiencies by item no.):				
7. Certified Operator(s)	Licensed No.		Class	
8. SPCC Practices Adequate?	Yes: X		No:	

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11 / 14 / 2019

G. Chemical / Waste Storage Areas			
1. Sludge/Hazardous or Non-Hazardous Waste:		a) Laboratory testing waste - Haz	
		b) Used oil - Non-hazardous	
		c) Wastewater treatment sludge	
2. Source of Waste		a) On site analytical laboratory	
		b) Process wastes from re-refining operations	
		c) Basic biological and physical treatments	
3. Describe any Waste Handling (What happens to it?)		Wastes from a are drummed and sent off-site for incineration (lab only), wastes from b are reused (waste caustic) and wastes from c are landfilled as non-hazardous wastes.	
4. Quantity		Varies with time and waste type	
5. Transport Company		Varies with waste stream	
6. Disposal Facility		Varies with waste type.	
7. On-Site Storage		Yes: X	No:
8. Describe (Include any Irregularities in Drums, Labels, or Manifests): None			
9. Conditions:		Good X	Fair
			Poor
10. Floor Drains in Storage Areas?		Yes:	No: X
11. Are SPCC Practices Adequate?		Yes: X	No:
12. Comments (Reference any Deficiencies by item no.): None			

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

Inspection Date: 11 / 14 / 2019

H. Industrial Self-Monitoring		
1. Is Self-Monitoring Required?	YES: <input checked="" type="checkbox"/>	NO:
2. Sample Collections Method: Grab and flow proportional methods are used as required by ECSD permit		
3. Is sampling location appropriate?	YES	
4. IU and POTW sample at same location?	YES:	NO: <input checked="" type="checkbox"/>
5. Chain-of-Custody Adequate?	YES: <input checked="" type="checkbox"/>	NO:
6. Sampling Equipment Adequate:	YES: <input checked="" type="checkbox"/>	NO:
7. Sample type appropriate?	YES: <input checked="" type="checkbox"/>	NO:
8. Sample containers Appropriate?	YES: <input checked="" type="checkbox"/>	NO:
9. Samples Properly Preserved?	YES: <input checked="" type="checkbox"/>	NO:
10. Holding times Short Enough?	YES: <input checked="" type="checkbox"/>	NO:
11. Sampling/ analysis done in accordance with 40 CFR 136?	YES: <input checked="" type="checkbox"/>	NO:
12. Is sampling frequency correct?	YES: <input checked="" type="checkbox"/>	NO:
13. IU certifying reports sent to POTW and IDEM?	YES: <input checked="" type="checkbox"/>	NO:
14. Sampling SOP reviewed?	YES: <input checked="" type="checkbox"/>	NO:
15. Sampling QA/QC documents reviewed?	YES: <input checked="" type="checkbox"/>	NO:
16. Analysis conducted	In-House	Contract Lab (Name) ALS
17. Self-Monitoring Records	YES: <input checked="" type="checkbox"/>	NO:
18. All Analytical results on File?	YES: <input checked="" type="checkbox"/>	NO:
19. Records Kept for Period Specified in Permit?	YES: <input checked="" type="checkbox"/>	NO:
20. Comments (Reference any Deficiencies by item no.): None		

EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT

Inspection Date: 11 / 14 / 2019

I. Final Comments

1. Questions/ Comments/ Discussion Good housekeeping

2. Follow Up Actions Required None

Inspector(s) Signature(s): _____ Date: _____

IU Representative Signature: _____ Date: 11/14/2019

FORM ADAPTED FROM INDIANA PRETREATMENT GROUP INSPECTION FORM, NO. 0586B, DATED 03/90

Waste Water Treatment Chemicals

		<u>Safe Height</u>	<u>GL Per Foot</u>	<u>GL Per Inch</u>	<u>Total Cap.</u>	<u>LEVEL</u>
T-609	Coagulant - CP-1					
T-620	Sodium hypochlorite - Bleach	155"	428	35	5,500 Gals.	Empty
T-621	SW-829 Water Treatment	162"	588	49	8,000 Gals.	
Drum 55 Gal.	HD Deformer	155"	428	35	5,500 Gals.	
T-22290	Aluminum Sulfate Solution				55 Gal. Drum	Full
T-22291	Aluminum Sulfate Solution					Full
T-31607	Sodium Bisulfite Solution					Full
Drum 55 Gal.	WW-2400 Cat. Polymer					Empty
Tote 250 Gal.	Polymer DrewFloc 2449 Belt Press	160"	363	30	4,800 Gals.	
Tote 250 Gal.	Polymer DrewFloc 2205 Belt Press					
T-615	Sodium Hydroxide 50% - Caustic	20'	376	31	7,500 Gals.	

Emulsion Breaking Chemicals

T-23604	SW-829 Water Treatment	CCI Chemical			2350 Gals.	
T-151510	SW-829 Water Treatment	CCI Chemical		7	1100 Gals.	
T-151521	Coagulant - EP-425	Out of Service				Empty

Boiler Water Treatment Chemicals

T-BH2-A -11500	BL-1558 -Amines,Corrosive.	ChemTreat	90"	13	1350 GL.	
T-BH2-B-	BL-1258-Potassium Sulfite	ChemTreat			1500 GL.	
T-BH2-C -11477	BL-1342-Compound Boiler Treatment	ChemTreat	60"	15	1000 GL.	

Cooling Tower Treatment Chemicals

T-CT850-A -11501	CL-4855- Quadrasperse	ChemTreat	90"	13.5	1350 GL.	
T-CT850-B -11502	CL-49- Microbiocide	ChemTreat	90"	13.5	1350 GL.	
Drum 55 Gal.	CL-215 - Microbiocide	ChemTreat			55 Gal. Drum	
Drum 55 Gal.	CL-4855- Quadrasperse CT-101	ChemTreat			55 Gal. Drum	

CYANIDE TREATMENT

CNX-1

CNX-10

HYDROGEN PEROXIDE

TOTES

275 GL.

275 GL.

275 GL.

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 12/9/19

INSPECTOR: Henry Padilla

STARTING TIME: 1000 A.m. ENDING TIME: 1100 A.m.

0

A. BACKGROUND INFORMATION #941			
1. Facility Name	Praxair Inc Praxair Inc		
2. Facility Address	25551 Mickey Rd		
3. Person Contacted / Title	David Moore, Paul Piper, Joe Centem		
4. No. of Employees	~25		
5. Shift Starting Time	Shift 1: 5am	Shift 2: 5pm	Shift 3:
6. Inspection Type	Unannounced:	Scheduled: <input checked="" type="checkbox"/>	
IF UNANNOUNCED, COMPLETE ITEMS BELOW, OTHERWISE GO TO ITEM No. 8.			
a) New Company	Yes:	No: <input checked="" type="checkbox"/>	
b) Complaint	Yes:	No: <input checked="" type="checkbox"/>	
c) Spill	Yes:	No: <input checked="" type="checkbox"/>	
d) Violation	Yes:	No: <input checked="" type="checkbox"/>	
e) Other	Yes: <input checked="" type="checkbox"/>	No:	
7. Explain Reason for Inspection: Routine Annual			
8. SPCC Plan Required and/or Slug Control Plan?	Yes: <input checked="" type="checkbox"/>	No SPCC - will be updated in 2020	
IF REQUIRED PROCEED, OTHERWISE GO TO PAGE 2, PRETREATMENT PERMIT.			
a) Is Plan on File?	Yes: <input checked="" type="checkbox"/>	No	
b) Is Plan Adequate?	Yes: <input checked="" type="checkbox"/>	No	
9. Explain Deficiencies in SPCC or Slug Control Plan?:			

**EAST CHICAGO SANITARY DISTRICT
INDUSTRIAL PRETREATMENT INSPECTION REPORT**

INSPECTION DATE: 12, 9, 19

B. PRE-TREATMENT PERMIT		
1. Permit No. <u>outfall # 941</u>	2. Expiration Date:	
3. Categorical Standard(s)		
4. Toxic Organic (Solvent) Management Plan Required	YES:	<u>NO:</u>
If required, Proceed, Otherwise go to Item No. 6.		
a) Is Plan on File?	YES:	NO:
b) Is Plan Adequate?	YES:	NO:
5. Production Based Standard Applicable?	YES:	NO:
If So, current Average Production Rate(s)		
6. Are there any changes since last inspection or planned changes to the IU?		
7. Do Permit Limits Represent Current Operations?	<u>YES:</u>	NO:
If not, what changes are necessary? <u>N/A</u>		
8. Are Self-Monitoring Reports Required?	YES:	<u>NO:</u>
If required proceed, otherwise go to page 3 Part C. Water/Wastewater.		
a) Are Reports on File?	YES:	NO:
b) Are Reports Current?	YES:	NO:
c) Are Reports Complete?	YES:	NO:
9. Explain Deficiencies in Self-Monitoring Reports:		
10. Schematic or site map provided?	YES: <u>X</u> <u>SPCC Plan</u>	NO:

has as well as SUPP

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C. WATER/WASTEWATER			
1. Source of Intake Water (GPD):	City: <input checked="" type="checkbox"/>	Well: <input type="checkbox"/>	Other: <input type="checkbox"/>
2. Discharge Method:	Volume (GPD) Month	Percent of Total	
a) Into Sewer	✓		
b) Via NPDES Permit			
c) Into Product		✓	
d) Evaporation		✓	
e) Other		✓	
3. Discharge(s) to Sewer	Volume (GPD) Month	Percent of Total	
a) Industrial Process - H ₂ Production boiler blow down			
b) Contact Cooling - H ₂ Production cooling tower			
a) Non-Contact Cooling - CO ₂ production cooling water			
b) Blow down - CO ₂ production boiler			
a) Sanitary			
b) Other - ww assoc. w/ maint. activities			
TOTAL	900,000	100%	
4. Process Discharge Flow:	Continuous <input checked="" type="checkbox"/>	Intermittent <input type="checkbox"/>	Batch <input type="checkbox"/>
If Batch	Gal/Batch	Frequency	
5. Type of Flow Measurement	Flow meter		
Adequate for Expected Flows?	YES: <input checked="" type="checkbox"/>	NO: <input type="checkbox"/>	
6. Date of Last Calibration:	11-11-19		
7. Number of Outfalls to POTW:	1		
8. Comments (Identify by Item No.): <u>N/A</u>			

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D. Manufacturing Area			
1. Product(s) or Service(s) and General Description of Processes: <div style="font-family: cursive; font-size: 1.2em; margin-top: 10px;">Industrial Gas Manufacturing - specifically H₂ + CO₂</div>			
2. Process Waste stream(s)	Description	To Sewer	To other (Specify)
3. Are there floor drains in the manufacturing areas?	YES:	NO: <div style="text-align: center; font-size: 1.5em;">X</div>	
4. Do the floor drains lead directly to the POTW?	YES:	NO: <div style="text-align: center; font-size: 1.5em;">X</div>	
5. Are temporary hoses in place as part of production?	YES:	NO: <div style="text-align: center; font-size: 1.5em;">X</div>	
6. Process areas Inspected:			
7. Conditions / Operation	Good <div style="text-align: center; font-size: 1.5em;">X</div>	Fair	Poor
8. General Housekeeping:	Good <div style="text-align: center; font-size: 1.5em;">X</div>	Fair	Poor
9. Conditions:			
10. SPCC Practices Adequate?		YES: <div style="text-align: center; font-size: 1.5em;">X</div>	NO:

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E. Materials Used (list any raw materials, solvents, oils, chemicals, pretreatment, and boiler/cooling tower additives) *attach additional sheets if necessary*

Chemical Substance Inventory provided?				YES: <input checked="" type="checkbox"/>	NO: <input type="checkbox"/>	
Name	Liquid?	Contained?	Size container	Quantity	MSDS?	Notes
see		SPCC				

in SPCC

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F. Pre-Treatment Area <u>N/A</u>				
1. Pretreatment System On-Site		YES:	NO:	
2. Schematic or site map provided?		YES:	NO:	
3. Description:				
4. Discharge	Continuous	Intermittent	Batch	Other
5. Conditions / Operation		Good	Fair	Poor
6. Comments (Reference any Deficiencies by item no.):				
7. Certified Operator(s)		Licensed No.	Class	
8. SPCC Practices Adequate?	Yes:	<u>X</u>	No:	

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G. Chemical / Waste Storage Areas			
1. Sludge/Hazardous or Non-Hazardous Waste:		a)	
		b)	
		c)	
2. Source of Waste		a) Universal wastes	
		b) Used oil	
		c)	
3. Describe any Waste Handling (What happens to it?)		Sent offsite to permitted & appropriate disposal/recycling location	
4. Quantity		USQG	
5. Transport Company		Safe-Kleen	
6. Disposal Facility		Verron	
7. On-Site Storage		Yes:	No: <input checked="" type="checkbox"/>
8. Describe (Include any Irregularities in Drums, Labels, or Manifests):			
9. Conditions:		<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Fair <input type="checkbox"/> Poor
10. Floor Drains in Storage Areas?		Yes:	No: <input checked="" type="checkbox"/>
11. Are SPCC Practices Adequate?		Yes: <input checked="" type="checkbox"/>	No:
12. Comments (Reference any Deficiencies by item no.):			

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H. Industrial Self-Monitoring		
1. Is Self-Monitoring Required?	YES:	NO: <input checked="" type="checkbox"/>
2. Sample Collections Method: <u>city collects sample</u>		
3. Is sampling location appropriate?		
4. IU and POTW sample at same location?	YES:	NO:
5. Chain-of-Custody Adequate?	YES:	NO:
6. Sampling Equipment Adequate:	YES:	NO:
7. Sample type appropriate?	YES:	NO:
8. Sample containers Appropriate?	YES:	NO:
9. Samples Properly Preserved?	YES:	NO:
10. Holding times Short Enough?	YES:	NO:
11. Sampling/ analysis done in accordance with 40 CFR 136?	YES:	NO:
12. Is sampling frequency correct?	YES:	NO:
13. IU certifying reports sent to POTW and IDEM?	YES:	NO:
14. Sampling SOP reviewed?	YES:	NO:
15. Sampling QA/QC documents reviewed?	YES:	NO:
16. Analysis conducted	In-House	Contract Lab (Name)
17. Self-Monitoring Records	YES:	NO:
18. All Analytical results on File?	YES:	NO:
19. Records Kept for Period Specified in Permit?	YES:	NO:
20. Comments (Reference any Deficiencies by item no.):		

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I. Final Comments

1. Questions/ Comments/ Discussion

2. Follow Up Actions Required

Inspector(s) Signature(s):  Date: 12-09-19

IU Representative Signature:  Date: 12-9-19

FORM ADAPTED FROM INDIANA PRETREATMENT GROUP INSPECTION FORM, NO. 0586B, DATED 03/90